

CLIMATOLOGICAL DATA FOR AUGUST, 1913.

DISTRICT NO. 3, OHIO VALLEY.

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GENERAL SUMMARY.

The intense heat wave and a marked deficiency in rainfall were the main features of weather prevailing in the Ohio Valley during August, 1913. This month was the fifth in succession in which there was a deficiency in rainfall over a large part of the district, and the heat wave had been almost continuous since about the middle of June. These conditions combined and continuing for so long a time resulted in one of the most severe droughts that has been experienced over much of this district during the past quarter of century. The droughty conditions were particularly severe in the southern portions of Ohio, Indiana, and Illinois, and over central and western Kentucky and a large portion of Tennessee. They were not so pronounced over portions of West Virginia and western North Carolina; also there were many localities in central and southeastern Indiana where local rains occurred with considerable frequency and mitigated the severity of the drought.

The temperature was above normal nearly the entire month and in many localities registered as high as previously recorded in August. There were a number of prostrations and deaths due to heat in various localities. Late crops were greatly curtailed, pastures were burned dry, and gardens generally failed. Creeks and small streams dried up, stock water became scarce, and in Kentucky wells and springs that had never been known to fail before went dry.

There was some local damage by storms in various parts of the district, but the damage from this cause was considerably less than usual.

The following table summarizes the chief features of meteorological interest for the several sections of the district:

Portions of States included in the Ohio River Basin.	Temperature.				Precipitation.							
	Average.	Departure.	Highest.	Lowest.	Average.	Departure.	Greatest monthly.	Least monthly.	Greatest in 24 hours.	Average number of days.	Average.	Snowfall.
New York.....	66.0	+0.4	96	37	2.95	-	1.07	3.57	2.64	1.17	9	0
Pennsylvania.....	70.4	+1.1	100	38	2.06	-	1.68	4.36	0.70	2.82	6	0
Maryland.....	66.0	+0.2	91	38	2.67	-	1.21	3.09	2.03	1.20	7	0
West Virginia.....	72.0	+1.0	102	37	3.22	-	0.52	8.20	0.79	3.37	6	0
Ohio.....	73.6	+1.9	102	39	2.48	-	0.79	4.75	1.02	3.36	6	0
Indiana.....	77.1	+3.2	106	42	3.07	-	0.23	5.75	1.03	3.31	8	0
Illinois.....	79.6	+4.1	106	49	2.53	-	0.81	5.14	0.45	3.20	6	0
Kentucky.....	78.0	+2.3	108	44	2.81	-	0.80	6.64	0.57	3.51	7	0
Tennessee.....	78.6	+2.5	107	45	2.39	-	1.38	6.08	0.51	2.85	6	0
Alabama.....	79.5	+0.4	103	52	2.54	-	1.08	4.57	1.18	1.66	5	0
Georgia.....	75.0	....	93	53	3.98	-	2.82	4.00	3.96	2.86	8	0
North Carolina.....	70.6	+0.6	94	43	4.41	-	2.09	7.00	1.20	2.84	12	0
Virginia.....	70.7	+0.6	93	42	4.27	-	0.35	6.71	1.10	2.54	9	0

TEMPERATURE.

The temperature averaged above normal, the departures ranging from $+1^{\circ}$ to $+6^{\circ}$, in practically all parts of the district. There were a few stations in the mountain sections and in northern Alabama, where the average temperatures were normal or had a small minus departure.

Maximum temperatures of 90° and over were registered on a remarkably large number of days. In sections in Indiana, Illinois, Kentucky, and Tennessee there were from 20 to 28 days with maximum temperatures of 90° or over, and 1 to 10 days with 100° or over. The highest temperature reached in the district was 108° at Earlington, Ky., on the 7th, which is the highest temperature ever recorded in Kentucky for August. Previous high temperatures were also reached or passed at several stations in Illinois. In Indiana the maximum temperature of 106° is next to the highest temperature ever registered in that State in August, the highest being 107° in 1911.

In Tennessee, except at the mountain stations, 90° or higher occurred on an average of about 26 days and 95° or higher on an average of about 15 days. A temperature of 100° or higher was registered at 24 out of 41 stations reporting temperature.

The month opened exceptionally hot and except for a slight break in the heat wave in the period 22d-25th, and over the northeastern portion of the district on the 4th-6th and again on the 30th, the temperature was above normal throughout the month. The heat wave was severest from the 7th to 12th, 15th to 18th, and on the 27th, 28th, and 31st.

PRECIPITATION.

Precipitation averaged below normal for August in each of the several sections of the district. It was normal or above over only scattered local areas in a few of the sections. The largest area with normal rainfall was in the southeastern portion of the district, and extended from extreme southwestern West Virginia and western North Carolina to northern Georgia. Over this area the rainfall ranged from 4 to 8.2 inches. The next considerable area was in central West Virginia, where rainfalls were between 4 and 6.2 inches. A peculiar feature in the distribution of rainfall during the month is shown in Indiana, where over a wide strip extending from the northern edge of the district southeastward through the central portion of that State to the southeastern border the rainfall was normal or above and ample, ranging at the various stations between 2.5 and 5.0 inches.

Generally, except over the areas mentioned, the rainfall was less than 2.5 inches. Over large areas it was less than 2.0 inches, while there were considerable areas where it

was less than 1.0 inch. The sections suffering the largest deficiency were southwestern Pennsylvania, southern Ohio, northeastern and western Kentucky, southwestern Indiana, north-central and southern Illinois, and western and extreme eastern Tennessee.

Rains were frequent in western North Carolina during most of the month, but especially during the first half of the month. They were copious in southwestern Virginia from the 12th to the 23d, inclusive. Showers were frequent in central Indiana in the periods 6th-8th, 11th-15th, and 17th-22d, and over the northeastern portion of the district the 11th-13th, 18th-19th, and the 22d-23d. In Kentucky beneficial showers occurred on the 2d, 7th-8th, 12th-15th, and the 20th-22d. In other sections the rains were very scattered and local, and they were of little or no consequence in any section after the 23d, except in western North Carolina and western Pennsylvania.

MISCELLANEOUS.

August 1.—A large barn and contents were set on fire by lightning and destroyed with a loss of \$2,000 near Glasgow, Ky. A young man working alone in a tobacco patch near Valley View, Ky., was killed by lightning. A hailstorm in Madison County, Ky., caused considerable damage to tobacco and other crops. Several houses were struck by lightning, others unroofed by wind, and several people injured during severe wind and electric storms in Whitley County, Ky. The Baptist Church at Alexandria, Tenn., was struck by lightning and destroyed, and a barn near this place was also struck and destroyed.

August 4.—At Greenville, Tenn., 9 head of cattle that had taken refuge under a tree were killed by lightning.

August 7.—A barn in Floyd County, Ind., was struck by lightning and destroyed, and a horse in the barn was killed. Three residences in Jeffersonville, Ind., were struck by lightning and two persons shocked. A church at Taylorsville, Ky., was struck by lightning, and a number of barns and houses in Jefferson County, Ky., were struck by lightning and damaged. A large barn and contents near Buechel, Ky., were destroyed by lightning. At Shelbyville, Tenn., a severe windstorm unroofed several buildings, blew down scores of shade trees, and put out of commission the electric-light system and many telephone lines. Near Bristol, Tenn., a barn with 6 horses, 1,000 bushels of wheat, hay, and farming implements was destroyed by lightning; also a barn was burned by lightning near Arcadia, Tenn.

August 8.—A large barn with contents, valued at \$2,000, was destroyed by lightning in Shelby County, Ohio. At Casey, Clark County, Ill., a tank of crude oil was struck by lightning and destroyed with a loss of \$15,000. A large cattle barn near Armstrong, Vermilion County, Ill., with contents, was destroyed by lightning. Lightning struck a barn near Cynthiana, Ky., killing a mule and destroying the barn, with 10 tons of hay, and a cornerrib near by.

August 9.—At Fayetteville, Tenn., a residence was struck by lightning and burned with all its contents.

August 10.—One barn was destroyed and a residence and two barns damaged by storms in Trumbull County, Ohio.

August 13.—A severe local storm at Indianapolis, Ind., caused considerable damage by lightning and flooding of basements. During this storm 2.68 inches of rain fell in one hour, which is the record for that station. Lightning caused considerable damage in Jefferson County, Ky. A number of barns were struck, and one large barn near Jeffersontown, containing 60 barrels of onion sets, horse feed, harness, and farming implements, was destroyed.

August 17.—One person was killed by lightning at Pittsburgh, Pa., and property in and around the city was damaged by wind, hail, and lightning.

August 18.—Storms caused much damage in several counties in Ohio. In Ashland County a barn and contents were destroyed and several buildings damaged; in Knox County several barns were destroyed by lightning and a man was killed by a falling smokestack, blown over by the wind; in Logan County a man was killed by lightning near Bellefontaine; in Dayton, Montgomery County, the furniture and interior of a church were damaged; in Alliance, Stark County, a number of dwellings and business houses were damaged and many telephones put out of service, while at Navarre, in the same county, six houses were struck and the telephone, electric-light, and street-car systems put out of commission during a severe thunderstorm.

A barn was struck by lightning and two horses killed near Madison, Ind. Several barns were burned by lightning near Palestine, Crawford County, Ill. Telephone and street-car service were interrupted, barns struck by lightning, and crops damaged by a severe wind squall and thunderstorm that swept over Louisville and Jefferson County, Ky. Lightning struck a tree near Elizabethtown, Ky., under which three persons had taken shelter, and a boy 19 years old was killed and the others seriously stunned.

August 21.—Two large barns in Franklin County, Ohio, were destroyed by lightning; in Marion County several buildings were struck and 3 barns, valued at \$3,400, were destroyed; in Licking County two residences and a church in Newark were damaged, and in Muskingum County a large furniture plant in Zanesville was destroyed, with a loss of \$10,000. A farmer was killed by lightning in Hamilton County, Ind. Near Lyons, Ind., a barn was struck by lightning and burned and a man who had just entered the barn was killed. Two horses were killed by lightning in Vermilion County, Ill. A workman on the Salt River Bridge, at West Point, Ky., was knocked into the river by lightning.

August 22.—Near Gallatin, Tenn., lightning struck a tree, killing a horse and mule which were sheltered under it and shocking a man who was standing under another tree about 30 yards distant.

August 29.—Three barns near Franklin and one at Punxsutawney, Pa., were struck by lightning and destroyed.

TABLE 1.—Climatological data for August, 1913. District No. 3, Ohio Valley.

Stations.	Counties.	Elevation, feet.	Length of record, years.	Temperature, in degrees Fahrenheit.						Precipitation, in inches.						Number of rainy days. 0.10 inch or more.	Number of clear days.	Number of partly cloudy days.	Number of cloudy days.	Prevailing wind direc- tion.	Observers.	
				Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall, unadjusted.								
<i>New York.</i>																						
Allegany.	Cattaraugus.	1,441	7	66.2	+ 0.4	96	17	39	25	40	3.57	- 1.07	1.17	0	12	15	12	4	nw.	C. E. Whitney.		
Bolivar.	Allegany.	1,800	19	65.8	+ 0.4	94	17	37	5	43	2.65	- 0.84	0.84	0	7	9	15	7	n. w.	C. F. Hoffman.		
Olean.	Cattaraugus.	1,402	5								2.64	- 0.68	0.68	0	7						John W. Alles.	
<i>Pennsylvania.</i>																						
Aleppo.	Green.	1,135	12	71.2	+ 1.0	95	9	45	25†	43	1.48	- 1.62	0.67	0	4	24	6	1	e.	J. S. Hinerman.		
Baldwin.	Butler.	1,404	7	69.0*		92	17	45*	25†	35*	1.29	- 0.46	0.53	0	8	16*	14	6	w.	S. H. Templeton.		
Beaver Dam.	Beaver.	674	19									- 2.36	0.72								U. S. Engineer.	
Brookville.	Jefferson.	1,173	22	69.2*		100*	17	39*	20†	44*	0.95	- 2.86	0.47	0	5						H. C. Bartholomew.	
California.	Washington.	770	8	73.2		96	9	49	26†	39	0.77		0.77	0	1	25	2	3	ne.	Prof. B. U. P. Cobough.		
Clarion.	Clarion.	1,078	28									1.20	- 2.39	0.60	0	14	16	1	w.	N. A. Goble.		
Claysville.	Washington.	1,127	9	72.0		95	18†	43	25	41	1.80	- 1.29	0.73	0	7					E. T. Buchanan.		
Confluence.	Somerset.	1,352	29									2.44	- 1.65	0.95	0	5	14	6	11		Grant Pyle.	
Franklin.	Venango.	955	38	70.4	+ 1.6	99	17	45	25	38	2.19	- 1.46	1.38	0	8	23	2	6	nw.	F. E. Dixon.		
Freeport.	Armstrong.	772	40									0.86	- 2.72	0.34	0	6	20	2	9		Mrs. Anna R. Burtner.	
Greensburg.	Green.	768	24									1.48	- 1.65	0.80	0	6	17	6	8	sw.	James G. Cramer.	
Greenville.	Westmoreland.	1,100	6	71.0		92	9	46	25	35	2.38	- 1.51	0.91	0	7	15	14	2	nw.	Westmoreland Water Co.		
Indiana.	Mercer.	950	17	70.2	+ 3.0	96	16†	40	25	46	2.13	- 1.43	1.02	0	10	28	11	2	nw.	A. M. Orr.		
Johnstown.	Cambridge.	1,350	16	71.4	+ 1.8	96	18	43	25	40	3.52	- 1.62	1.37	0	8	20	8	3	s.	R. W. Wehrle.		
Lock No. 4.	Washington.	1,184	25	72.9	+ 1.7	98	18	49	31	38	1.91	- 2.66	0.80	0	8	18	11	2	sw.	E. C. Lorentz.		
Lyciuss.	Westmoreland.	718	27									1.17	- 2.12	0.55	0	4	13	8	10	s.	R. T. McGowan.	
Mosgrove.	Westmoreland.	1,420	21	70.2	- 0.7	89	9	47	25	32	2.21	- 0.13	2.10	0	6					Murray Forbes.		
Pittsburgh.	Armstrong.	775	2									1.54	- 0.37	0.99	0	5	19	0	12	nw.	C. J. Moore.	
Punxsutawney.	Allegheny.	842	43	73.2	+ 0.7	92	9	52	25	35	2.81	- 0.37	0.68	0	7	18	9	4	nw.	U. S. Weather Bureau.		
Ridgway.	Jefferson.	0	68.2*			96	17	40	26†	42*	1.76		0.68	0	6	15	14	2	sw.	Samuel M. Rosenthal.		
Saegerstown.	Elk.	0	67.5			97	17	38	5	42	2.06		0.70	0	8					F. J. Eagan.		
Sharon.	Crawford.	1,116	22	66.8	- 0.4	92	17	38	25	41	2.03	- 2.06	1.42	0	6	9	16	6	nw.	J. G. Apple.		
Somerset.	Mercer.	940	2	70.8		94	18†	41	25	38	3.96	- 2.81	2.73	0	8	17	5	9	ne.	Norman S. Powell.		
Uniontown.	Somerset.	2,250	57	68.9	+ 2.0	94	18†	41	26	45	1.91	- 2.81	0.95	0	6	9	20	2	nw.	W. M. Schrock.		
Warren.	Fayette.	999	25	73.0	+ 1.4	98	10†	49	26	35	3.10	- 1.28	1.10	0	5	26	3	2	sw.	Wm. Hunt.		
	Warren.	1,137	24	68.8	- 0.4	100	18†	41	5	43	3.18	- 0.74	1.76	0	6	18	1	12	sw.	Anna Simpson.		
<i>Maryland.</i>																						
Deer Park.	Garrett.	2,457	20	64.7	- 0.6	91	18	38	26†	45	2.03	- 1.44	1.00	0	5					S. P. Specht.		
Grantsville.	do.	2,351	20	67.1	+ 0.5	91	18	43	25†	40	3.08	- 0.77	1.00	0	8	21	6	4	w.	J. S. Miller.		
Oakland.	do.	2,461	14	66.2	+ 0.8	90	9	39	31	45	2.90	- 1.41	1.20	0	8					R. E. Weber.		
<i>West Virginia.</i>																						
Bancroft.	Putnam.	574	10			91	1	54	30†		3.63	- 1.14	2.30	0	5	12	5	14	ne.	R. E. Dent.		
Beckley.	Raleigh.	2,440	14	67.2	- 2.5	91	1	37	25	43	2.82	- 1.30	2.40	0	3	23	4	4	w.	John A. Ewart.		
Bens Run.	Pleasants.	822	12	75.8	+ 2.1	94	9†	55	51	32	2.81	- 0.85	2.40	0	4	28	2	1		J. D. Riggs.		
Bluefield.	Mercer.	2,563	19	72.6*	+ 1.3	91	18	47	25	38*	2.91	- 1.23	1.30	0	8	16*	4d	7d		Norfolk & Western R. R.		
Buckhamon.	Upshur.	1,472	23	70.4	+ 0.2	90	1†	44	31	38	5.55	- 1.89	2.20	0	7	23	1	2		H. A. Darnall.		
Cairo.	Bethel.	667	11	74.4	+ 1.7	95	10†	98	30†	42	1.25	- 1.26	1.10	0	5	10	20	1	sw.	Van A. Zevely.		
Central Station.	Doddridge.	900	11	74.8		96	9	47			3.48	- 2.19	1.15	0	8	22	4	5	w.	G. W. Sherwood.		
Charleston.	Kanawha.	598	28	77.9	+ 2.6	95	9	58	25	26	2.55	- 0.98	1.48	0	8					R. C. Hewes.		
Cuba.	Wirt.	612	12	73.8	+ 0.8	95	9	51	30†	34	2.50	- 0.53	1.04	0	7	18	10	3	sw.	J. M. Reed.		
Doane.	Jackson.	544	13	73.4	+ 1.6	96	9	48	30†	40	1.57	- 1.43	1.36	0	3	10	20	1	w.	C. T. Perry.		
Elkhorn.	Wayne.	1,933	21	71.6	+ 0.5	92	1	50	24	31	5.05	- 1.48	2.00	0	7	18	9	4	w.	L. A. Smith.		
Elkins.	McDowell.	1,940	14	70.0	+ 1.7	91	18	45	31	45	4.56	+ 0.91	2.23	0	8	13	5	5		J. J. Lincoln.		
Fairmont.	Randolph.	1,900	21	74.4		98	18	49	30	41	0.90	- 2.51	0.39	0	5	26	2	3	w.	U. S. Weather Bureau.		
Glenville.	Marion.	879	21	74.4		98	18	49	30	41	0.90	- 2.51	0.39	0	5	26	2	3	w.	F. P. Hall.		
Grafton.	Gilmer.	738	24	77.0	+ 3.8	99	9	54	6†	37	0.66	+ 0.17	1.72	0	4	25	4	2	w.	Joe N. Craddock.		
Green Sulphur Springs.	Taylor.	985	21	74.2	+ 2.8	99	9	49	31	41	3.74	- 0.15	1.60	0	5	25	0	6	w.	Joseph Gerken.		
Hinton.	Summers.	1,600	18	72.4	+ 0.8	94	9	47	31	39	2.31	- 0.75	1.43	0	7	12	13	6	w.	Arthur George.		
Holcomb.	do.	1,400	24	75.5	+ 1.5	95	1†	53	31	47	1.46	- 2.29	0.70	0	6	7	1	23		J. B. Lavender, C. E. Ferguson.		
Huntington.	Nicholas.	1	69.6			91*	8	47	25	36*	4.87	- 1.25	2.15	0	6	19	5	7	w.	R. E. Ferguson.		
Lewisburg.	Cabell.	510	18	76.4	+ 1.8	98	9	53	30	35	1.68	- 2.03	1.28	0	7	27	2	2	w.	L. H. Hutchinson.		
Logan.	Greenbrier.	2,200	13	69.6	- 0.5	89	1†	47	31	36	2.07	- 1.38	0.90	0	7					Geo. T. Argabrite.		
Lost Creek.	Logan.	665	11	79.4		97	1	60	5	30	0.03	+ 0.43	0.43	0	6	21	2	2		Dr. J. E. McDonald.		
Madison.	Harrison.	1,033	17	70.1	- 0.8	94	18	44	31	41	3.11	- 0.99	1.49	0	5	26	3	2	w.	Allen Smith.		
Mannington.	Boone.	704	8	74.0		101	2†	46	30†	50*	2.13	- 1.62	0.75	0	4	13*	6*	1*	w.	B. E. Bradley.		
Marlinton.	Marion.	967	11	71.1	- 0.1	93	9†	44	31	41	0.83	- 2.68	0.35	0	6	23	5	3	w.	Jas. A. Morgan.		
Morgantown.	Pocahontas.	2,169	17	67.0	- 1.2	88	9	46	25	31b	3.74	- 0.71	1.10	0	8	15b	13b	1	w.	C. J. McCarty.		
Moundsville.	Monongalia.	1,250	39	73.8	+ 1.7	95	18	49	25	34	0.79	- 2.36	0.65	0	3	22	7	1	w.	Horace Atwood.		
New Cumberland.	Marshall.	640	11	74.0	+ 1.5	98	9†	46	24	30	2.07	- 0.84	0.97	0								

TABLE 1.—Climatological data for August, 1913. District No. 3—Continued.

Stations.	Counties.	Elevation, feet.	Length of record, years.	Temperature, in degrees Fahrenheit.						Precipitation, in inches.						Sky.	Prevailing wind direction.	Observers.	
				Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall.	Number of rainy days, 0.01 inch or more.	Number of clear days.	Number of partly cloudy days.	Number of cloudy days.	
Ohio.																			
Amesville.	Athens.	630	9	74.5	.....	101	9	46	24	35	2.56	.....	2.39	0	3	22	8	1	F. W. Gibson.
Ashland.	Ashland.	1,079	13	72.8	+ 2.3	97	17	48	24	35	3.75	+ 0.58	1.83	0	10	15	3	13	S. W. Brandt.
Bangorville.	Richland.	26	72.8	+ 2.6	98	17	48	24	34	4.59	+ 1.20	3.36	0	8	13	16	2	sw.	
Bellefontaine.	Logan.	1,276	34	72.8	+ 1.2	92	17	46	30	38	2.61	- 0.74	1.04	0	7	17	5	9	Cory L. Lane.
Bladensburg.	Knox.	1,100	20	70.4	+ 0.4	92	17	45	30	35	3.10	+ 0.43	2.52	0	6	4	27	0	Miss Mary Elliot.
Brilliant.	Jefferson.	700	70.6	.....	97	1	48	22	41	2.50	.....	1.00	0	4	22	5	4	w.	
Cadiz.	Harrison.	1,245	9	72.8	.....	95	17	51	30	31	3.37	.....	2.15	0	4	20	8	3	Mrs. Mary K. Pennell.
Cambridge.	Guerney.	803	21	71.2	+ 0.7	93	91	47	30	35	1.93	- 1.23	1.72	0	3	12	19	0	Harry B. McConnell.
Camp Dennison.	Hamilton.	570	20	76.2	+ 1.5	100	91	48	30	43	1.25	- 0.67	0.70	0	7	17	9	5	Samuel Mehaffey.
Canal Dover.	Tuscarawas.	884	20	71.2	+ 0.7	93	91	47	30	35	1.93	- 1.23	1.72	0	3	12	19	0	Henry F. Pinkvoss.
Canton.	Stark.	1,059	30	72.0	+ 2.4	97	17	44	25	38	2.63	- 0.77	1.24	0	8	19	6	6	Francis L. Bixler.
Cardington.	Morrow.	1,010	18	73.0	+ 2.9	94	91	49	24	33	1.59	.....	0.98	0	3	14	10	7	Carl H. Meyer.
Chillicothe.	Ross.	636	10	78.1	+ 2.6	98	9	59	23	29	1.27	- 2.06	0.39	0	7	14	10	7	J. W. Shaw.
Cincinnati.	Hamilton.	628	42	78.1	+ 2.6	98	9	59	23	29	1.92	- 1.20	1.47	0	6	15	5	11	Marion Mackey.
Circleville.	Pickaway.	694	25	76.7	+ 3.4	100	107	50	51	40	1.02	- 2.25	0.70	0	6	17	10	4	U. S. Weather Bureau.
Clarington.	Monroe.	600	10	73.2	+ 0.8	102	9	50	26	42	2.10	- 1.12	1.61	0	7	17	8	6	Dr. H. R. Clarke.
Columbus.	Franklin.	918	35	75.4	+ 2.4	96	16	54	24	32	2.66	.....	2.10	0	5	25	5	1	Col. S. Tschappat.
Coshocton.	Coshocton.	770	4	77.0	.....	95	17	47	30	43	1.58	- 2.16	0.85	0	6	19	12	1	U. S. Weather Bureau.
Dayton (1).	Montgomery.	899	2	75.7	+ 2.3	95	17	54	24	31	1.81	- 1.20	1.15	0	8	12	12	7	Mrs. Ada Jeffries.
Dayton (2).	do.	790	33	76.0	+ 2.4	98	91	50	39	31	2.81	- 0.32	1.16	0	9	9	9	1	U. S. Weather Bureau.
Delaware.	Delaware.	896	16	74.3	+ 2.5	99	17	48	51	39	2.36	- 0.99	1.79	0	7	12	15	4	Mrs. Edith E. L. Boyer.
Demos.	Belmont.	1,326	26	73.8	+ 2.5	95	18	53	24	34	1.58	- 2.16	0.85	0	5	25	5	1	DeWitt H. Leas.
Dennison.	Tuscarawas.	846	3	73.8	.....	99	17	47	30	43	2.70	.....	1.53	0	6	19	12	1	J. T. Dysart.
Frankfort.	Ross.	745	21	75.8	+ 3.2	99	9	48	5	37	1.80	- 1.43	1.25	0	3	15	9	7	O. A. Cory.
Gallipolis.	Gallia.	580	1	76.7	.....	96	17	48	51	33	2.83	.....	2.23	0	5	25	5	1	Samuel F. Neal.
Garretttsville.	Portage.	1,005	20	68.8	+ 1.8	96	17	39	25	48	2.27	- 1.21	0.97	0	8	10	17	4	Samuel Luther.
Granville.	Licking.	960	31	73.0	+ 1.9	96	17	48	24	36	3.01	+ 0.20	1.90	0	6	22	1	3	Dr. L. E. Davis.
Gratiot.	do.	1,000	24	71.8	+ 1.0	92	9	50	30	32	3.67	+ 0.49	2.00	0	9	16	14	1	W. B. Longstreth.
Green.	Adams.	500	20	75.3	+ 0.6	95	18	50	5	37	1.17	- 2.49	0.49	0	3	24	4	3	W. F. Kenyon.
Green Hill.	Columbiana.	1,135	20	68.8	+ 0.3	93	17	40	25	38	1.75	- 1.51	0.65	0	6	20	10	1	Jos. E. Bentley.
Greenville.	Darke.	1,060	27	74.6	+ 3.6	94	9	52	24	32	1.61	- 1.70	0.65	0	7	18	4	9	Geo. A. Katzenberger.
Hamilton.	Butler.	601	1	76.2	.....	97	17	49	24	41	3.13	.....	2.03	0	8	21	7	3	Earl W. Stout.
Haydenville.	Hocking.	700	1	72.6	.....	96	9	45	5	38	2.47	.....	1.43	0	6	23	6	2	H. W. Stiers.
Hillsboro.	Highland.	1,063	34	70.7	+ 3.2	100	9	50	30	41	1.26	- 2.63	0.62	0	5	23	4	4	Carey H. Roush.
Ironton.	Lawrence.	575	30	76.7	+ 3.2	96	9	50	30	41	1.26	- 2.63	0.62	0	5	23	4	4	James Bull.
Kenton.	Hardin.	1,015	21	72.6	+ 0.8	95	16	47	51	37	3.89	+ 1.49	2.00	0	5	23	4	4	Frank B. Rarey.
Killbuck.	Holmes.	1,087	20	71.8	+ 1.0	96	17	47	27	40	2.27	- 1.20	1.50	0	6	19	1	John A. Schonauer.	
King's Mills.	Warren.	640	1	76.7	.....	96	9	50	24	32	2.59	.....	2.09	0	4	20	2	9	Frank M. See.
Lancaster.	Fairfield.	898	18	74.0	+ 2.3	96	9	50	24	32	2.59	- 0.49	1.21	0	5	23	6	2	R. L. Renshaw.
McConnelsville.	Morgan.	710	29	73.0	+ 1.2	95	9	50	30	34	2.98	- 0.24	2.31	0	7	16	9	6	C. H. Morris.
Marietta.	Washington.	627	93	75.3	+ 3.3	99	9	50	31	35	3.07	- 0.69	1.61	0	6	16	9	6	Prof. T. D. Biscoe.
Marion.	Marion.	980	35	74.4	+ 2.4	99	16	48	24	41	2.17	- 0.91	1.15	0	5	23	3	2	Dr. E. H. Raffensperger.
Mifflinton.	Knox.	1,200	21	72.6	+ 2.2	96	16	47	24	39	1.80	- 1.28	1.41	0	4	19	10	2	L. H. Burgess.
Milligan.	Perry.	875	20	73.2	+ 1.3	97	91	45	30	44	2.44	- 0.36	2.44	0	1	13	18	0	V. C. Eveland.
Millport.	Columbiana.	1,145	20	69.4	+ 0.2	91	91	42	25	37	2.64	- 0.60	0.98	0	5	10	20	1	G. F. Copeland.
Nellie.	Coshocton.	850	13	72.2	+ 0.8	98	17	47	5	39	2.42	- 1.27	1.82	0	2	14	16	6	Ethel L. Gammertsfelder.
New Berlin.	Stark.	1,100	20	69.8	- 0.9	94	91	43	25	41	2.27	- 1.23	1.12	0	6	17	6	8	Clayton Holl.
New Waterford.	Columbiana.	1,053	18	71.8	+ 2.4	99	9	38	25	47	1.29	- 2.40	0	5	25	5	1	Sam. Scott.	
O. S. University.	Franklin.	757	30	74.8	+ 3.5	95	91	48	30	34	2.86	- 0.03	1.44	0	6	8	7	7	Prof. H. C. Lord.
Oregonia.	Warren.	1,015	21	73.3	+ 1.5	96	9	47	24	37	2.53	- 0.64	1.40	0	7	10	20	1	E. H. Stephens.
Patahala.	Licking.	1,018	25	73.8	+ 0.5	95	9	52	24	33	1.51	.....	0.60	0	8	18	11	2	J. N. Ridéour.
Peebles.	Adams.	645	2	73.8	.....	98	91	44	31	48	1.51	.....	0.55	0	6	15	13	3	Ora O. Smalley.
Philo.	Muskingum.	1,018	18	73.6	+ 0.5	95	9	52	24	33	1.51	.....	0.62	0	9	17	14	10	L. C. Burchholter.
Piqua.	Miami.	847	3	73.6	.....	98	9	52	24	33	2.56	.....	0.62	0	9	17	14	10	Harry L. Roberts.
Plattsburgh.	Clark.	1,130	20	74.3	+ 2.3	96	17	48	30	37	3.03	+ 1.27	1.74	0	7	15	15	1	F. E. Stewart.
Portsmouth.	Scioto.	527	52	77.8	+ 3.5	99	91	47	30	37	1.71	- 1.75	0.85	0	7	14	6	11	Dr. H. A. Schirrmann.
Prospect.	Marion.	909	3	76.7	.....	96	9	45	30	38	2.34	- 0.49	0.99	0	9	19	6	6	Neil J. Gast.
Sidney.	Shelby.	965	30	74.8	+ 2.3	96	9	48	30	38	2.34	- 0.49	0.99	0	9	19	6	6	Hamline B. Blake.
Somerset.	Perry.	1,080	14	75.4	+ 2.1	97	91	54	24	33	1.23	- 2.21	1.18	0	7	19	8	4	Miss M. W. C. Sheridan.
Springfield.	Clark.	980	19	76.7	.....	96	9	50	30	34	1.09	- 0.49	0.74	0	6	16	14	1	W. A. Webster.
Summerfield.	Noble.	1,187	7	72.5	.....	96	18	48	30	38	1.77	.....	0.60	0	6	15	14	3	H. R. McClintonck.
Thurman.	Meigs.	583	2	76.2	+ 1.1	101	9	50	30	38	3.38	- 0.24	0.42	0	4	22	6	3	Irving R. Karr.
Toboso.	Fayette.	996	20	77.2	+ 2.6	99	9	48	30	41	1.68	- 1.08	0.95	0	3	17	12	2	D. D. Thomas.
Urbana.	Licking.	1,031	45	74.7	+ 3.1	96	91	48	24	39	2.35	- 0.93	0.85	0	8	9	21	1	H. A. Albyn.
Warren.	Champaign.	900	24	71.6	+ 1.7	97	16	42	25	38	3.43	+ 0.22	1.65	0	6	20	11	0	Prof. J. H. Williams.
Waverly.	Pike.	590	30	74.7	+ 1.1	96	17	48	30	38	2.40	- 0.03	0.82	0	6	16			

TABLE 1.—Climatological data for August, 1913. District No. 3—Continued.

Stations.	Counties.	Elevation, feet.	Length of record, years.	Temperature, in degrees Fahrenheit.						Precipitation, in inches.						Sky.	Prevailing wind direction.	Observers.		
				Mean.			Departure from the normal.			Greatest daily range.			Total.							
				Highest.	Date.	Lowest.	Date.	Lowest.	Date.	Greatest.	Daily	Range.	Total.	Greatest.	In 24 hours.	Total snowfall, unmelted.	Number of rainy days, 0.01 Inch or more.	Number of clear days.	Number of partly cloudy days.	Number of cloudy days.
<i>Indiana—Continued.</i>																				
Huntington.	Huntington.	741	20	73.8	+ 1.3	96	17	49	25	39	4.26	+ 0.83	1.80	0	9	17	9	5	a.	Chas. McGrew.
Indianapolis.	Marion.	823	41	76.3	+ 2.7	98	28	57	35	27	4.98	+ 1.65	3.08	0	9	12	14	5	ne.	U. S. Weather Bureau.
Jeffersonville.	Clark.	455	31	78.8	+ 2.7	98	8	55	30	35	2.09	- 1.19	0.81	0	10	14	16	1	s.	John C. Loomis.
Judyville.	Warren.	450	6	76.0		98	9	49	30	39	4.62		1.58	0	7	16	5	5	-----	W. A. Hill.
Kokomo.	Howard.	840	27	73.4	+ 0.8	97	19	43	30	39	2.91	- 0.49	1.04	0	7	15	14	2	ne.	P. H. Robertson.
Le Fayette.	Tipppecanoe.	617	34	76.2	+ 3.6	97	8	53	30	33	2.84	- 0.43	1.05	0	7	21	6	4	se.	Wm. J. Jones, Jr.
Logansport.	Cass.	620	33	76.2	+ 3.7	100	16	50	30	35	2.18	- 0.67	0.86	0	7	19	6	6	w.	Chas. Massena.
Madison.	Jefferson.	460	27	79.1	+ 2.6	100	9	54	30	39	2.52	- 0.21	1.55	0	9	14	16	1	nw.	Miss F. Cooperider.
Marengo.	Crawford.	363	31	79.5	+ 4.8	98	21	57	24†	37	2.17	- 1.78	1.17	0	5	12	14	5	sw.	J. M. Johnson.
Marion.	Grant.	514	27	75.1	+ 2.7	98	17	49	30	35	3.27	+ 0.21	1.15	0	10	12	18	8	s.	James F. Hood.
Mauzy.	Rush.	980	33	73.4*	+ 2.4	95*	9	47	30	34	5.75	+ 2.77	1.40	0	10	15*	12*	3*	nw.	Elwood Kirkwood.
Monticello.	White.	674	3								5.16		3.31	0	7	12	15	4	n.	J. E. Loughey.
Moore's Hill.	Dearborn.	980	12	76.4	+ 1.9	100	9	52	24	33	2.99	- 0.29	1.32	0	10	22	6	3	sw.	W. S. Bigney.
Mount Vernon.	Posey.	410	27	80.5	+ 2.6	102	7†	54	30	34	3.30	+ 0.19	2.70	0	2	16	11	4	sw.	Guy B. Green.
Nashville.	Brown.	754	14	75.4		95	8†	48	29	46	1.03		0.51	0	4	17	11	3	sw.	W. C. Goble.
Poell.	Orange.	611	16	78.0	+ 2.6	101	3†	49	5	47	4.65	+ 0.85	1.91	0	8	16	13	2	ne.	James A. Gillum.
Princeton.	Gibson.	481	31	80.6	+ 5.2	103	6	52	30	42	1.40	- 1.77	0.40	0	6	24	4	3	sw.	Albert Mills.
Richmond.	Wayne.	972	28	73.5	+ 2.4	94	9†	46	30	37	2.27	- 1.47	0.67	0	10	10	21	0	ne.	Walter Vossler.
Rochester.	Fulton.	775	8	74.9		91	16	58	23	30	4.46		1.01	0	7	23	3	5	se.	J. E. Troutman.
Rockville.	Parke.	722	27	75.5	+ 5.5	103	8	49	30	42	1.87	- 1.01	0.71	0	6	21	2	2	se.	C. A. Lee.
Rome.	Perry.	870	10	81.0	+ 3.1	106	7	52	30	45	4.71	+ 1.06	1.98	0	8	21	3	7	sw.	Adam Anspeah.
Salamonie.	Jay.	950	8	73.0		95*	28	45*	25†	42*	2.81		1.71	0	11	6*	21*	3*	sw.	S. A. Armstrong.
Salem.	Washington.	717	20	77.6	+ 2.3	102	8	47	30	44	1.26	- 1.73	0.55	0	6	13	18	0	w.	Emmet S. Allen.
Scottsburg.	Scott.	570	19	78.4	+ 2.3	101	8	52	30	40	3.74	+ 0.95	2.49	0	7	13	15	3	s.	Frank H. Park.
Seymour.	Jackson.	610	26	79.0	+ 4.6	102	8†	51	30	41	4.44	+ 1.01	2.19	0	7	17	12	2	ne.	John Thomas Hays.
Shelbyville.	Shelby.	768	9	75.0		96	9†	48	30	40	3.83		1.58	0	9	8	23	0	sw.	Edgar G. Hodson.
Shoals.	Martin.	523	6	76.8		102	15	51	30	38	1.91		1.54	0	4	20	5	6	irw.	Rev. L. H. Hallie Rowe.
Terre Haute.	Vigo.	498	23	79.0	+ 3.0	99	28	45*	28	42*	2.81		1.71	0	10	22	7	2	sw.	U. S. Weather Bureau.
Vevey.	Fountain.	612	14	79.8	+ 4.8	101	3	52	5†	48	1.86	- 1.33	1.04	0	10	22	7	2	sw.	L. A. Culver, Jr.
Vincennes.	Switzerland.	525	32	78.8	+ 3.4	99	9	54	30	36	5.00	+ 1.99	2.85	0	5	6	17	8	sw.	Miss Frederica Boerner.
Washington.	Daviess.	431	21	82.2	+ 5.4	105	8	56	30	38	2.05	- 0.97	1.50	0	5	21	4	6	sw.	Garrett V. List.
Whitestown.	Boone.	529	17	81.2	+ 5.3	104	8	58	23†	35	1.42	- 2.47	0.61	0	5	23	3	5	sw.	Charles C. Feagans.
Winona Lake.	Kosciusko.	865	6	73.9		96	16	44	25	41	2.93		1.12	0	13	8	23	0	sw.	Alfred O. Laughner.
Worthington.	Greene.	526	31	77.9	+ 4.3	97	8†	53	30	35	1.68	- 1.63	0.85	0	9	4	26	1	sw.	D. W. Soliday.
<i>Illinois.</i>																				
Albion.	Edwards.	531	22	80.6	+ 3.7	104	6	57	30†	37	4.01	+ 0.70	1.30	0	8	21	9	1	s.	B. F. Michaels.
Casey.	Clark.	645	10								3.70	+ 0.84	0.99	0	7	15	16	0	se.	William Chénoweth.
Charleston.	Coles.	720	28																-----	Jacob B. Daisy.
Danville.	Vermillion.	604	12	78.0	+ 4.0	101	8	50	30	42	2.72	- 0.19	0.82	0	9	19	6	6	sw.	J. J. Lemon.
Equality.	Gallatin.	421	15	81.2	+ 3.0	106	6	51d	25	40	1.61	- 2.19	0.80	0	5	24	7	0	s.	Dr. L. W. Gordon.
Fairfield.	Wayne.	450	20	81.1	+ 4.8	108*	6	50d	24	44*	3.48	+ 0.38	2.00	0	4	16	14	1	n.	Geo. A. Tromly.
Flora.	Clay.	495	27	80.9	+ 6.0	106	8	51	30	43	2.67	- 0.72	1.33	0	6	16	9	6	sw.	W. L. Hanna.
Golconda.	Pope.	500	35	81.3	+ 3.4	106	7	52	30	45	2.94	- 0.22	1.33	0	6	16	8	7	sw.	Dr. D. Lawrence.
Hoopeston.	Vermilion.	715	11	76.2	+ 4.0	102*	8	51	5	42*	5.14	+ 1.24	3.20	0	9	21	6	4	sw.	S. F. Hoskinson.
McLeansboro.	Hamilton.	462	30	82.0	+ 6.1	105	6†	56	31	44	1.21	- 2.17	0.90	0	3	23	5	3	sw.	Thos. W. Biggerstaff.
Metropolis.	Massac.	346	2								3.93		3.21	0	4	23	5	3	sw.	Henry H. Humma.
Mountaineer.	Effingham.	599	3	79.0		103	8	50	30	45	4.92		2.20	0	7	15	16	0	sw.	J. C. Spitzer.
New Burnside.	Wabash.	424	12	80.6	+ 4.2	102	6	57	30	36	1.28	- 1.85	0.70	0	4	22	7	1	sw.	Mrs. H. M. Phillips.
Newton.	Johnson.	613	18	79.6	+ 1.8	102	7	51	30	42	1.09	- 1.51	0.70	0	4	21	5	3	s.	Thos. H. McCabe.
Olney.	Jasper.	484	2								3.11		1.13	0	7	23	7	1	sw.	J. M. Hicks.
Pickland.	Richland.	486	26	79.2	+ 2.8	103	6†	50	30	41	1.97	- 0.92	1.29	0	4	19	11	1	sw.	John T. Ratcliffe.
Palestine.	Crawford.	500	31	79.8	+ 5.4	102	8	54	30	35	4.36	- 0.89	2.91	0	9	19	8	4	s.	Duane Shaw.
Paris.	Edgar.	600	20	78.8	+ 3.6	102	8†	52	30	41	2.06	- 0.80	0.70	0	5	21	4	6	sw.	H. P. Twymann.
Philo.	Champaign.	700	29	77.4	+ 4.6	101	8	49	30	39	1.59	- 1.20	1.10	0	3	19	11	1	se.	H. A. Burr.
Rileyville.	Saline.	400	16								0.45	- 1.54	0.59	0	2	17	10	4	s.	W. H. Thornberry.
Shawneetown.	Gallatin.	207	3								0.92	- 2.21	0.30	0	2	13	18	0	sw.	Mrs. Mary O. Spivey.
Tuscola.	Douglas.	644	20								1.44	- 1.37	0.87	0	8	9	18	4	s.	Joseph O'Neal.
Urbana.	Champaign.	751	11	77.4	+ 4.3	100	8	55	25†	34	1.44		0	0	8	9	18	4	s.	University of Illinois.
<i>Kentucky.</i>																				
Alpha.	Clinton.	19	76.5	+ 0.4	94	1	53	25†	32	5.80	+ 1.47	3.25	0	8	21	6	4	w.	W. W. Hicks.	
Anchorage.	Jefferson.	700	12	77.4	+ 2.6	101	8	50	30	40	4.81	+ 2.06	2.15	0	8	19	7	5	sw.	C. E. Barrett.
Bardstown.	Nelson.	637	16	78.1	+ 0.5	103	8	50	23	40	3.00	- 0.41	0.90	0	5	18	1	12	s.	T. S. Talbott.
Beattyville.	Lee.	650	9	76.6	+ 1.7	101	17	48	30	49	2.36	- 2.41	0.96	0	6	9	15	7	w.	G. W. Cann.
Beaver Dam.	Ohio.	441	10	80.2	+ 3.8	104	6	49	30	47	1.05	- 2.33</td								

TABLE 1.—Climatological data for August, 1913. District No. 3—Continued.

Stations.	Counties.	Elevation, feet.	Length of record, years.	Temperature, in degrees Fahrenheit.						Precipitation, in inches.						Sky.	Prevailing wind direction.	Observers.	
				Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall, unmelting.	Number of rainy days, 0.01 inch or more.	Number of clear days.	Number of partly cloudy days.	Number of cloudy days.	
Kentucky—Continued.																			
Middlesboro.	Bell.	1,128	18	75.2	+ 0.8	94	11+	48	31	42	1.24	- 2.20	0.42	0	8	18	13	0	B. H. Perkins.
Mt. Sterling.	Montgomery.	930	23	76.4	+ 2.5	97	9	51	31	39	2.17	- 1.77	0.58	0	6	23	4	4	James O'Connell.
Owensboro.	Daviess.	379	16	78.8	+ 2.	100	6†	54	30	37	3.48	+ 0.64	3.02	0	4	14	11	6	Henry S. Berry.
Paducah.	McCracken.	341	24								6.03	+ 3.07	3.51	0	5	5			S. A. Fowler.
Pikeville.	Pike.	5									2.06		0.80	0	6				I. M. Williams.
Richmond.	Madison.	926	21	78.0	+ 2.4	96	9†	54	24	36	4.00	+ 0.80	1.43	0	11	19	4	8	J. W. Crooke.
St. John.	Hardin.	777	17	78.2	+ 3.4	101	8	50	30	41	2.70	+ 0.24	0.76	0	4	15	5	11	Bethlehem Academy.
Scott.	Kenton.	15	77.1	+ 1.7	98	9	52	24†	38	2.55	- 0.36	1.01	0	12	12	5	8	E. B. Wilson.	
Shelby City.	Boyle.	1,087	19	76.7	+ 2.4	101	8	47	30	49	2.31	- 0.82	0.81	0	9	19	7	5	H. F. Ewing.
Shelbyville.	Shelby.	759	24	78.2	+ 1.1	100	9	50	30	42	1.95	- 1.08	0.56	0	7	19	4 ^a	5 ^b	C. R. Burnett.
Taylorsville.	Spencer.	489	11	77.0	+ 2.5	98	6†	49	30	41	1.27	- 2.11	0.38	0	8	16	9	6	E. D. Bourne.
Williamsburg.	Whitley.	939	17	77.8	+ 1.5	100	11	48	30	45	2.04	- 2.59	0.62	0	7	24	2	5	Noble C. Jones.
Williamstown.	Grant.	943	11	75.8	+ 1.8	96	9†	53	23	32	4.31	+ 1.09	1.97	0	6	16	5	10	Miss Rose Carter.
<i>Tennessee.</i>																			
Ashwood.	Maury.	725	40	79.4	+ 1.9	101	7	53	30	42	4.44	+ 0.61	1.25	0	5	13	11	7	Mrs. Joseph W. Fleming.
Benton.	Polk.	880	29	79.5	+ 3.2	100	1†	50	31	44	1.51	- 2.53	0.48	0	5	12	17	2	George L. Williams.
Birds Bridge.	Greene.	7									1.93		0.98	0	5	22	3	6	David B. George.
Bluff City.	Sullivan.	18									5.13	+ 1.04	1.38	0	6	22	1	8	Walter C. Masengill.
Byrdstown.	Pickett.	1,026	21	78.6	+ 3.4	97	2†	53	30	37	2.75	- 1.23	1.22	0	8	4	18	9	John Lacy.
Carthage.	Smith.	500	30	80.4	+ 2.8	101	1†	53	30	43	2.11	- 2.01	1.25	0	6	23	2	6	Carl C. Plokering.
Cedar Hill.	Robertson.	625	15	81.0	+ 2.5	104	8†	53	23†	47	1.88	- 1.37	1.20	0	6	18	13	0	J. Frank Ruffin.
Celina.	Clay.	494	10								3.75	+ 0.25	1.83	0	8	23	0	8	Charles M. Anderson.
Charleston.	Bradley.	709	29								1.57	- 2.87	0.50	0	7	23	1	3	John T. Weeks.
Chattanooga.	Hamilton.	808	34	79.5	+ 3.0	96	7	60	24	31	2.35	- 1.40	0.80	0	7	17	11	3	U. S. Weather Bureau.
Clarksville.	Montgomery.	500	53	81.9	+ 6.0	107	7	53	30	45	1.53	- 1.65	0.57	0	6	18	9	4	Prof. James A. Lyon.
Clinton.	Anderson.	800	29								1.08	- 2.68	0.56	0	4	19	1	11	H. C. Slover.
Crossville.	Cumberland.	1,895	1	75.2		95	7	51	24†	39	3.66		1.90	0	7	24	5	2	J. F. Converse.
Dandridge.	Jefferson.	8									0.72		0.24	0	6	24	2	5	James E. Swann.
Decatur.	Meigs.	850	18	79.8	+ 2.7	101	7	52	31	45	1.19	- 3.72	0.65	0	7	19	10	2	J. Worth Lillard.
Dickson.	Dickson.	800	20	78.2	+ 1.1	102	7	50	30	43	0.55	- 3.02	0.36	0	2	16	15	0	Nathan R. Sugg.
Dover.	Stewart.	500	17	80.2	+ 2.2	104	7	51	30	46	1.91	- 1.13	1.01	0	4	18	12	1	Asst M. Tippit.
Dunlap.	Sequatchie.	726	4	79.8		100	11†	54	24	39	3.82		1.50	0	8	11 ^a	2 ^b		S. Bradford Boyd.
Elizabethton.	Carter.	1,575	22								6.08	+ 1.79	2.85	0	6	19	6	6	Charles Boyd.
Erasmus.	Cumberland.	1,850	16	73.2	+ 1.2	93	7†	45	31	42	5.67	+ 0.89	2.50	0	5	16	13	2	Mrs. Sarah E. Ashley.
Florence.	Rutherford.	560	31	79.3	+ 2.7	99	7	54	30	37	1.56	- 2.01	0.63	0	5	25	4	2	Erastus P. Bell.
Franklin.	Williamson.	648	25	78.0	+ 1.4	98	7	49	30	41	1.60	- 1.65	1.24	0	4	18	9	9	Young M. Rizer.
Halls Hill.	Rutherford.	10									1.73	- 1.85	0.67	0	6	25	2	4	Edward F. Wright.
Hohenwald.	Lewis.	983	30	78.5	+ 2.8	102	7	49	26	44	2.74	- 1.06	0.96	0	7	20	10	1	Mrs. Mary Luttselman.
Iron City.	Lawrence.	600	18			99	7†				5.15	+ 1.59	2.45	0	5	14	17	0	Capt. H. Paul Seavy.
Jefferson City.	Jefferson.	3									1.19		0.30	0	9				Calvin C. Maddox.
Johnson City.	Washington.	1,620	20	76.6	+ 3.1	98	1	53	25	40	5.18	+ 0.76	1.37	0	8	22	5	4	Ward Crosby.
Johnsonville.	Humphreys.	364	28	80.0	+ 1.5	103	7	49	30	48	0.96	- 2.38	0.80	0	4	17	10	4	Miss Sallie B. Mathews.
Kingston.	Roane.	28									1.22	- 2.70	0.58	0	5	20	6	6	Henry Crumbill.
Knoxville.	Knox.	977	42	78.8	+ 4.1	96	11	58	31	34	1.44	- 2.56	0.65	0	7	16	9	6	U. S. Weather Bureau.
Lebanon.	Wilson.	522	40	80.2		102	7	54	30	39	3.79		1.10	0	5	19	2	10	H. Logan Fields.
Lewisburg.	Marshall.	727	19	79.3	+ 1.5	101	7	52	24	42	4.30	- 0.06	1.51	0	7	19	11	1	Dr. Robert D. Crutcher.
Liberty.	Dekalb.	672	16								1.38		0.91	0	2	24	0	7	Bratten Evans.
Loudon.	Loudon.	516	22	78.4		99	11†	53	31	42	0.79	- 2.83	0.41	0	3	19	9	9	Robert W. Clark.
Lynville.	Giles.	770	26	78.4	+ 1.0	96	7†	56	25†	35	3.10	- 0.81	1.49	0	5	18	13	0	Col. James H. Burrow.
McGhee.	Monroe.	8									1.54		0.56	0	5	25	0	6	Miss Alice L. Headrick.
McMinnville.	Warren.	1,011	32	80.3	+ 4.7	102	7	50	25	47	0.89	- 3.01	0.60	0	5	19	10	2	Horace H. Stiles.
Maryville.	Blount.	1,050	20								2.26		0.78	0	6	22	6	3	Edward E. Barry.
Mountains City.	Johnson.	2,486	16	69.7	+ 0.8	87	1	47	25	34	4.71	- 0.75	1.21	0	11	15	13	3	U. S. Weather Bureau.
Nashville.	Davidson.	654	42	80.6	+ 2.8	100	7	58	30	36	0.85	- 2.62	0.64	0	5	17	10	4	Dr. Charles T. Burnett.
Newport.	Cooke.	1,280	23								2.47	- 1.94	0.81	0	6	7	9	15	Burl W. Butiram.
New River.	Scott.	1,215	5								2.26		0.78	0	6	22	6	3	Mrs. Ross Woods.
Palmetto.	Bedford.	770	23	80.0	+ 2.3	103	7	53	25	39	2.51	- 0.98	1.15	0	7	19	11	1	Oliver C. Kirksey.
Perryville.	Decatur.	387	17	80.0		102	7	52	25	43	0.51	- 2.42	0.27	0	3	25	5	1	Miss Carrie Cash.
Pinewood.	Hickman.	7	78.4			103	7†	46	30	49	0.08		0.60	0	3	10	17	4	Fred Beal.
Rogersville.	Hawkins.	1,150	29	76.4	+ 2.5	96	1	54	25	36	3.22	- 0.97	1.26	0	9	20	7	4	Samuel G. Wilson.
Rugby.	Morgan.	1,410	24	75.6	+ 2.6	98	27	45	30†	50	3.04	- 1.12	1.10	0	8	15	7	9	W. H. Carrington.
Savannah.	Hardin.	442	30	80.4	+ 2.3	101	31	51	30	45	1.73	- 1.64	1.37	0	3	15	14	2	Herbert O. Eckel.
Sevierville.	Sevier.	7	79.8		98	8	62	5	30	1.68	0.54		0	9	9	0	13	Univ. of the South.	
Sewanee.	Franklin.	2,000	19								2.51	- 1.72	1.01	0	5	14	12	5	Ernest H. Hull.
Sparta.	White.	920	7	77.5		96	7	52	24	40	1.64		0.90	0	3	15	12	4	Hudnall A. Boien.
Springville.	Henry.	377	11	79.4	+ 2.2	104	7	48	30	50	0.92	- 1.91	0.29	0	7	25	6	0	J. Caloway Carr.
Tazewell.	Calabornae.	1,350	16	76.2		97	11†	48	31	45	0.94	- 3.91	0.37	0	6	16	7	8	Reuben T. Moore.
Tullahoma.	Coffee.	1,075	26	77.8	+ 2.3	100	7	53	25†	37	3.51	- 0.27	1.04	0	10	16	14	1	John K. Roberts.
Walling.	White.	909	9								3.08		1.60	0	5	21	8	2	Harry C. Boyd.
Waynesboro.	Wayne.	753	28	78.4	+ 2.5	100	7	50											

TABLE 1.—*Climatological data for August, 1913. District No. 3—Continued.*

Stations.	Counties.	Elevation, feet.	Length of record, years.	Temperature, in degrees Fahrenheit.						Precipitation, in inches.						Sky.	Prevailing wind direction.	Observers.		
				Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall, unmeted.	Number of rainy days, 0.01 inch or more.	Number of clear days.	Number of partly cloudy days.	Number of cloudy days.		
<i>North Carolina.</i>																				
Altapass.	Mitchell.	2,620	...	69.0	...	86	3†	48	28	38	1.20	...	1.00	0	3	17	14	0	w.	Altapass Inn.
Andrews.	Cherokee.	1,800	3	74.6	...	93	1†	50	31	41	5.07	...	2.84	0	13	17	12	2	sw.	J. D. Link.
Asheville.	Buncombe.	2,255	34	71.8	+ 1.3	88	11	54	25	31	2.41	— 2.38	0.74	0	13	9	15	7	se.	U. S. Weather Bureau.
Banners Elk.	Avery.	3,750	5	66.0	...	83	9†	43	25	35	5.80	...	2.42	0	12	14	9	8	w.	T. L. Lowe.
Blantyre.	Transylvania.	1,900	1	...	...	...	...	...	...	...	7.00	...	1.42	0	16	8	...	...	R. W. Collett.	
Blowing Rock.	Watauga.	4,090	4	...	...	...	...	...	...	...	3.22	...	0.79	0	10	...	...	...	E. G. Underdown.	
Bryson City.	Swain.	2,000	25	...	...	...	...	...	...	...	3.92	— 1.25	0.98	0	10	...	...	...	D. K. Collins.	
Cane River.	Yancey.	2,700	6	...	...	...	...	...	...	...	4.91	...	2.15	0	13	...	...	...	Hiram A. Proffitt.	
Cullowhee.	Jackson.	2,100	3	73.4	...	90	14	52	24†	34	4.27	...	0.84	0	15	11	11	9	s.	Fran H. Brown.
Eagles Nest.	Haywood.	5,050	...	66.2	...	80	12	52	24†	25	4.08	...	2.80	0	10	17	10	4	sw.	S. C. Satterthwait.
Ellijay.	Macon.	2,500	...	...	...	...	...	...	...	...	4.01	...	0.73	0	14	...	...	...	Chas. G. Mincey.	
Highlands.	do.	3,850	23	68.6	+ 0.8	82	7†	50	27	29	5.64	— 0.99	1.62	0	16	5	22	4	se.	T. G. Harbison.
Hot Springs.	MacIsaac.	1,326	15	75.4	+ 1.3	94	1	55	25	32	6.09	...	2.31	0	12	16	10	5	e.	P. A. Garner.
Jefferson.	Ashe.	2,900	6	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	Prof. E. J. Johnson.	
Marshall.	Madison.	1,646	11	74.5	+ 1.4	92	12†	50	24	34	4.45	— 1.29	1.40	0	9	...	...	...	w.	M. L. Church.
Murphy.	Cherokee.	1,614	37	...	...	...	...	...	...	...	...	2.15	— 3.18	0.60	0	8	...	...	...	Miss Victoria Mingus.
Rock House.	Macon.	3,100	21	68.8	— 1.9	85	1	56	17†	24	5.69	— 3.47	2.22	0	15	6	17	8	e.	Barry C. Hawkins.
Transon.	Ashe.	2,600	1	...	...	...	...	...	...	...	5.07	...	1.21	0	12	...	...	...	S. M. Transou.	
Waynesville.	Haywood.	2,792	19	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	Mrs. Chas. E. Quinlan.	
<i>Virginia.</i>																				
Blacksburg.	Montgomery.	2,170	22	70.5	+ 0.6	93	9	48	31	37	3.32	— 0.62	1.52	0	10	16	8	7	w.	Agricultural Experiment Sta.
Burke's Garden.	Tazewell.	3,250	18	66.7	+ 0.4	86	1	42	25	36	3.73	— 0.60	0.80	0	10	12	9	10	w.	C. H. Greever.
Elk Knob.	Lee.	3,243	10	74.7	+ 3.1	92	1	57	24	28	4.20	— 0.22	1.75	0	5	19	7	5	ne.	Henry Nicoll.
Emory.	Washington.	2,094	1	72.0	...	91	1	46	26	37	5.33	...	2.10	0	9	20	...	11	...	J. E. Weaver.
Ivanhoe**.	Wythe.	2,028	9	69.0	...	86	1	52	25	26	5.00	...	1.12	0	13	11	17	3	w.	Miss Alice G. Jewett.
Max Meadows.	do.	2,028	17	71.2	+ 0.2	92	1	48	31	37	0.88	— 4.32	0.75	0	6	22	4	5	sw.	James M. Graham.
Mendota.	Washington.	1,350	4	...	...	...	...	...	...	...	6.71	...	1.33	0	10	...	...	...	Frank M. Barker.	
Mountain Lake.	Giles.	4,348	3	...	...	86	9	...	1	...	3.17	...	1.16	0	7	24	2	5	...	H. E. Dorland.
Radford.	Montgomery.	1,773	4	...	...	...	...	...	...	...	1.10	...	0.50	0	3	...	...	...	Arthur Roberts.	
Spears Ferry.	Scott.	1,221	17	...	...	...	...	...	...	...	5.77	+ 0.84	2.54	0	7	...	...	...	Miss L. E. Venable.	
Wytheville.	Wythe.	2,293	20	70.8	+ 0.3	93	1	50	25	33	5.39	+ 0.85	1.12	0	14	16	10	5	w.	U. S. Weather Bureau.

a, b, c, etc., indicate, respectively, 1, 2, 3, etc., days missing from the record.

** Temperature extremes are from observed readings of the dry bulb; means are computed from observed readings.

† Also on other dates.

T. Precipitation is less than 0.01 inch rain or melted snow.

TABLE 2.—*Daily precipitation for August, 1913. District No. 3, Ohio Valley.*

TABLE 2.—*Daily precipitation for August, 1913. District No. 3—Continued.*

Stations.	Watershed.	Day of month.																														Total.		
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31		
<i>West Virginia—Con.</i>																																		
Robertsburg |||	G. Kanawha																																	4.02
Rowlesburg |||	Monongahela																																	2.22
Ryan	G. Kanawha																																	2.02
Saint Marys |||	Ohio	.02																																2.31
Smithfield |||	Fish'g Cr'k																																	2.09
Spencer |||	L. Kanawha																																	4.19
Sutton |||	G. Kanawha																																	3.59
Terra Alta	Monongahela																																	2.97
Union	G. Kanawha																																	5.70
Valley Fork	do																																	1.91
Webster Springs	do																																	1.38
Wellsburg	Ohio	.20																																2.52
Weston |||	Monongahela																																	1.38
Wheeling |||	Ohio																																	1.38
Williamson |||	Big Sandy	.02	T.																															2.52
<i>Ohio.</i>																																		
Amesville	Ohio																																	2.56
Ashland	Muskingum	.18																																3.75
Bangorville	do	.34																																4.59
Bellefontaine |||	Great Miami																																	2.61
Bladensburg	Muskingum	.19																																3.10
Brilliant	Ohio	.50																																2.50
Cadiz	do		T.																															3.37
Cambridge	Muskingum	.11																																1.93
Camp Dennison	Little Miami	.16																																1.25
Canal Dover	Muskingum																																	1.25
Canton |||	do	.04																																2.63
Cardington	Scioto																																	1.59
Chillicothe |||	do																																	1.27
Cincinnati	Ohio	.13																																1.22
Circleville |||	Scioto																																	1.92
Clarington	Ohio	.05																																1.02
Columbus	Scioto																																	2.10
Coshocton |||	Muskingum	.25																																2.66
Dayton (1)	Great Miami	.01																																1.81
Dayton (2)	do	.16																																2.81
Delaware	Scioto																																	3.36
Demos	Ohio		T.																															1.56
Dennison	Muskingum																																	2.70
Frankfort	Scioto																																	1.80
Gallipolis |||	Ohio																																	2.83
Gardettsville	Mahoning	.29																																2.27
Granville |||	Muskingum	.07	T.	.10																													3.01	
Gratiot	do	.03		.05																													3.67	
Green	Ohio																																	1.17
Green Hill	Muskingum	.02																																1.75
Greenville |||	Great Miami	.15																																1.61
Hamilton	do																																	3.13
Haydenville	Scioto																																	2.47
Hillsboro	Scioto																																	1.25
Ironton	Ohio																																	3.89
Kenton	Scioto																																	2.27
Killbuck	Muskingum	.20																																2.27
King's Mills |||	Little Miami																																	2.60
Lancaster	Ohio																																	2.59
McConnelsville	Muskingum		T.	.04																													2.99	
Marietta	Ohio			.01																													3.07	
Marion	Scioto			.30																													2.17	
Mifflordton	Muskingum			.18																													1.80	
Milligan	do																																	2.44
Millport	Ohio																																	2.42
Nellie	Muskingum	.60																																2.27
New Berlin	do	.13				</																												

TABLE 2.—*Daily precipitation for August, 1913. District No. 3—Continued.*

TABLE 2.—*Daily precipitation for August, 1913. District No. 3—Continued.*

Stations.	Watershed.	Day of month.																														Total		
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31		
Kentucky—Contd.																																		
Lexington.	Kentucky.	T.						T.	.12	.19																								1.00
Loretto.	Salt.																																	2.66
Louisa ||.	Big Sandy.																																	2.28
Louisville (1).	Ohio.																																	2.09
Louisville (2).	do.																																	3.35
Marion.	do.																																	2.24
Maysville ||.	do.																																	1.49
Middlesboro.	Cumberland.	.30																																1.24
Mount Sterling ||.	Licking.	.40																																2.17
Owensboro ||.	Ohio.																																	3.48
Paducah ||.	do.																																	6.03
Pikeville ||.	Big Sandy.																																	2.66
Richmond ||.	Kentucky.	T.																																4.00
St. John ||.	Salt.	.69																																2.70
Scott.	Licking.																																	2.55
Shelby City.	Kentucky.	.06	T.																															2.31
Shelbyville ||.	Salt.																																	1.95
Taylorsville.	do.																																	1.27
Williamsburg ||.	Cumberland.	.76																																2.04
Williamstown ||.	Licking.																																	4.31
Tennessee.																																		
Ashwood.	Tennessee.	1.17																																4.44
Benton.	do.	T.																																1.51
Birds Bridge ||.	do.	.36																																1.93
Bluff City ||.	do.	1.15																																5.13
Byrdstown.	Cumberland.	.21																																2.75
Carthage ||.	do.	1.25																																2.11
Cedar Hill.	do.	1.20	.06																															1.88
Celina ||.	do.	1.83																																3.75
Charleston ||.	Tennessee.	.12																																1.57
Chattanooga.	do.	.48																																2.35
Clarksville.	Cumberland.	.23																																1.53
Clinton ||.	Tennessee.	.56																																1.68
Crossville.	do.	.25																																3.66
Dandridge ||.	do.	.24																																0.72
Decatur.	do.	T.																																0.01
Dickson.	Cumberland.																																	0.55
Dover.	do.	T.																																1.91
Dunlap.	Tennessee.	1.50	.15																														3.82	
Elizabethton ||.	do.																																	1.25
Erasmus.	Cumberland.	2.50																																5.67
Florence.	do.	.10	.05																															1.56
Franklin.	do.	1.24																																1.60
Halls Hill ||.	do.																																	1.73
Hohenwald.	Tennessee.	.06	.28																															2.74
Iron City.	do.	1.30																																5.15
Jefferson City ||.	do.	.26	.04																															1.19
Johnson City ||.	do.	1.29																																5.18
Johnsonville.	do.	.30	.08																															0.96
Kingston ||.	do.																																	1.22
Knoxville.	do.	.65																																1.44
Lebanon.	Cumberland.	1.00																																3.79
Lewisburg.	Tennessee.	.32	.08																														4.30	
Liberty ||.	Cumberland.	.91																																1.38
Loudon ||.	Tennessee.	.41																																0.79
Lynville.	do.	.85																																3.10
McGhee ||.	Cumberland.	.60	.21																														1.54	
Mcminnville.	Cumberland.																																0.89	
Maryville.	Tennessee.																																	5.73
Mountain City.	Tennessee.	.33	.14																														4.71	
Nashville.	Cumberland.	.67																																0.85
Newport ||.	Tennessee.	.81																																2.47
New River ||.	Cumberland.	.78																																2.26
Palmetto.	Tennessee.</td																																	

TABLE 2.—*Daily precipitation for August, 1913. District No. 3—Continued.*

Stations.	Watershed.	Day of month.																														Total.										
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31										
<i>North Carolina.</i>																																										
Altapass.....	Tennessee.....				T.	1.00																												.10	1.20							
Andrews.....	do.....	1.85	.99	.06																															.02	5.07						
Asheville.....	do.....	.21			.07	.46				T.	T.	.02	.72																						.06	2.41						
Banners Elk.....	do.....	(3)																																			T.	5.80				
Blantyre.....	do.....	.70																																					7.00			
Blowing Rock.....	G. Kanawha.....	.32																																						3.22		
Bryson City 	Tennessee.....																																								18	
Cane River.....	do.....	2.15	.15																																					3.92		
Cullowhee.....	do.....	.13	.20																																					4.91		
Eagles Nest.....	do.....	2.80	.37																																					4.27		
Ellijay.....	do.....	.09	.05	T.																																				4.08		
Highlands.....	do.....	.75	.32	.15																																				4.01		
Hot Springs.....	do.....	.23																																						5.64		
Jefferson.....	G. Kanawha.....																																							6.09		
Marshall 	Tennessee.....	1.14																																						1.40		
Murphy 	do.....	.18																																						2.15		
Rock House.....	Savannah.....	.09	.02	1.05																																			5.69			
Transon.....	G. Kanawha.....	.37																																						5.07		
Waynesville 	Tennessee.....																																									
<i>Virginia.</i>																																						3.32				
Blacksburg.....	Kanawha.....																																								3.73	
Burkes Garden.....	Tennessee.....	T.			T.	T.																																		4.20		
Elk Knob.....	do.....	1.20																																							5.32	
Emory.....	do.....	.02																																							5.00	
Ivanhoe 	Kanawha.....																																								0.88	
Max Meadows.....	do.....	T.																																							6.71	
Mendota 	Tennessee.....	.38																																							3.17	
Mountain Lake.....	Kanawha.....																																								1.10	
Radford 	do.....																																								5.77	
Speers Ferry 	Tennessee.....	.45																																							5.39	
Wytheville.....	Kanawha.....	.08																																								

* Precipitation included in that of the next measurement.

† Separate dates of falls not recorded.

||| Precipitation for the 24 hours ending on the morning when it is measured.

T. Precipitation is less than 0.01 inch rain or melted snow.

TABLE 3.—Maximum and minimum temperatures at selected stations for August, 1913. District No. 3, Ohio Valley.

Date.	Pennsylvania.				West Virginia.										Ohio.													
	Greenville.		Pittsburgh.		Charleston.		Elkhorn.		Elkins.		Glenville.		Huntington.		Morgan-		Parkers-		Wheel-		Canton.		Cincin-		Colum-		Dayton.	
	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.
1....	85	64	88	68	94	73	92	67	90	64	96	73	96	70	90	70	92	71	95	69	87	66	91	74	88	67	87	68
2....	85	48	83	59	93	68	85	66	81	58	97	60	90	66	88	58	83	62	86	54	89	51	89	66	90	65	87	62
3....	88	46	85	60	89	63	84	54	81	54	91	58	88	58	87	57	88	59	88	58	91	53	91	66	90	65	89	64
4....	84	58	79	65	88	65	84	53	80	57	90	56	87	55	85	58	89	65	84	61	81	67	85	67	89	61	83	64
5....	80	44	80	58	86	60	83	54	84	51	90	55	88	57	85	53	83	59	85	53	83	49	85	61	82	57	86	55
6....	84	47	85	62	86	68	79	58	79	57	88	54	78	60	82	64	80	62	84	56	84	51	74	65	82	63	81	66
7....	88	53	85	65	87	67	78	59	84	57	91	60	91	63	86	62	89	65	78	60	89	67	90	69	89	68	85	68
8....	83	60	84	71	88	70	82	60	85	57	90	64	91	66	88	65	86	67	84	62	83	63	90	69	85	68	83	74
9....	88	65	92	74	95	71	88	62	89	62	99	64	98	71	93	71	97	70	95	64	94	71	98	78	95	73	93	73
10....	90	67	87	66	94	72	86	61	89	65	98	68	94	71	91	74	94	76	95	71	93	72	90	76	88	70	88	73
11....	78	56	79	64	93	72	84	58	82	65	90	70	87	71	82	70	83	68	80	61	89	73	80	68	83	70	83	70
12....	83	54	75	62	85	73	85	59	77	64	88	74	90	62	85	60	86	67	81	62	79	59	93	73	88	66	89	68
13....	86	56	84	63	87	73	77	66	84	66	92	70	85	73	85	63	87	73	89	63	82	73	89	70	87	71	82	72
14....	90	52	86	62	88	71	82	65	82	61	89	68	86	70	83	60	89	70	89	60	91	54	83	73	91	66	87	69
15....	91	57	86	67	88	70	83	62	85	58	91	72	92	65	87	62	90	65	89	63	91	64	93	69	91	65	84	69
16....	96	59	89	68	88	69	94	60	88	58	92	74	92	67	91	63	90	68	90	64	94	63	92	75	96	70	91	70
17....	96	63	92	69	92	71	91	66	94	75	95	67	91	70	95	67	94	68	94	66	97	74	95	73	96	70	91	70
18....	94	63	92	67	91	71	90	66	91	64	97	70	92	68	95	66	95	70	91	68	94	65	91	73	93	72	91	70
19....	89	67	86	72	92	73	85	65	85	66	94	68	93	71	87	68	91	69	87	66	92	72	90	68	89	66	91	69
20....	87	59	81	67	91	70	81	68	79	64	92	66	88	70	82	65	89	68	87	65	86	60	91	72	89	69	90	68
21....	85	58	81	64	87	69	78	61	78	59	90	65	89	67	83	74	86	67	86	60	91	61	84	73	86	66	84	71
22....	81	65	78	64	85	70	78	66	70	61	88	62	79	70	77	66	80	67	81	62	78	55	82	60	80	60	80	66
23....	74	61	75	58	79	62	78	64	75	55	84	54	77	60	77	68	78	60	79	55	77	54	74	59	71	56	73	56
24....	80	50	76	55	78	63	75	50	75	52	82	55	82	58	78	52	77	55	80	55	81	49	81	59	79	54	81	58
25....	86	40	76	52	81	58	80	61	77	50	84	54	86	56	81	49	80	50	79	44	86	58	81	58	83	58	83	58
Mns..	85.2	55.2	83.1	63.3	88.0	67.8	82.6	60.7	82.1	58.0	91.0	63.1	88.5	64.4	85.7	62.0	86.5	64.6	86.3	60.0	85.8	58.2	87.7	68.5	86.2	64.6	86.1	65.3

Date.	Ohio.				Indiana.										Kentucky.													
	Marion.		Waverly.		Butler-		Evans-		Indian-		Kokomo.		Rock-		Worthing-		Philo, Ill.		Beatty-		Bowling		Earling-		Greens-		Lexing-	
	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.		
1....	87	59	94	68	90	74	91	76	83	69	82	63	93	68	95	72	86	66	100	67	99	71	100	76	103	74	93	71
2....	85	54	88	55	92	56	92	67	89	66	95	55	92	56	98	59	90	64	97	68	92	65	96	66	90	65	90	65
3....	92	52	92	54	94	58	95	60	92	68	94	55	101	58	95	64	97	58	94	56	95	62	100	60	97	59	90	65
4....	84	64	85	61	91	67	92	72	81	67	82	62	98	66	98	68	86	65	94	59	92	62	101	62	94	57	87	67
5....	86	50	88	50	90	56	86	66	83	53	92	56	88	53	91	55	92	54	97	59	94	59	98	60	98	60	90	60
6....	84	56	83	54	85	62	100	70	83	61	84	61	93	61	94	65	95	63	88	55	100	60	103	61	99	56	84	66
7....	93	63	91	60	93	65	78	72	86	76	75	64	94	68	91	69	92	66	96	61	108	74	100	63	98	68	98	68
8....	87	67	87	62	96	70	97	79	94	68	90	67	103	70	97	72	101	60	94	64	101	73	102	71	98	68	98	68
9....	96	60	98	68	98	74	89	78	95	76	94	72	100	71	95	76	100	71	99	72	100	76	99	72	97	71	94	71
10....	91	71	95	68	90	72	93	73	83	72	97	70	97	72	98	75	98	73	97	70	100	67	90	70	97	70	97	70
11....	80	65	85	70	94	72	87	74	86	70	78	63	89	72	89	72	90	71	98	64	100	66	98	68	98	66	91	74
12....	86	63	87	70	98	71	92	73	87	67	85	61	89	68	88	73	84	67	95	67	98	72	95	75	97	77	88	73
13....	91	63	89	71	97	72	88	73	87	69	88	66	88	68	88	73	90	71	99	70	98	73	98	75	97	76	91	71
14....	84	63	89	69	82	68	94	76	77	70	78	69	88	70	82	71	85	70	88	66	97	70	98	75	98	76	96	78
15....	95	63	89	67	93	68	96	76	88	71	90	67	99	70	92	72	97											

TABLE 3.—*Maximum and minimum temperatures at selected stations for August, 1913. District No. 3—Continued.*

Date.	Kentucky.						Tennessee.										Decatur, Ala. ^{##}				Asheville, N. C.		Virginia.					
	Louisville.		Maysville. ^{##}		Williams- burg. ^{##}		Chatta- nooga.		Johnson City. ^{##}		Knoxville.		Nashville.		Palmetto.		Sparta.		Waynes- boro.		Max.		Min.		Max.		Min.	
	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.
1....	90	73	97	69	99	72	89	70	98	65	94	65	95	71	95	72	93	70	92	69	95	70	88	65	92	63	93	67
2....	90	66	92	59	92	66	87	69	89	67	86	68	89	71	91	68	87	68	89	68	86	68	81	63	88	65	86	63
3....	94	67	96	58	88	67	90	68	89	68	89	68	92	65	95	60	88	59	90	59	94	63	85	64	87	57	86	58
4....	88	71	90	61	96	55	95	65	95	65	97	64	97	68	99	62	94	60	95	59	94	64	87	56	89	53	85	55
5....	88	64	91	55	92	58	93	71	96	60	91	68	92	69	96	64	93	60	94	68	93	68	82	60	81	58	81	59
6....	96	67	77	57	93	55	94	69	91	60	92	67	100	64	99	60	93	59	99	59	98	63	82	62	86	53	82	59
7....	91	65	95	61	96	65	96	65	92	60	92	67	100	73	103	72	96	66	100	66	99	67	80	63	82	59	80	62
8....	98	76	92	65	96	68	91	70	90	60	89	68	94	74	93	66	93	68	95	67	95	67	80	60	84	57	82	61
9....	95	78	100	68	98	63	89	69	91	62	93	67	88	75	91	71	91	65	92	72	96	70	87	64	93	57	88	61
10....	91	72	98	69	98	68	94	69	95	65	95	72	93	69	96	67	93	65	92	67	97	67	84	63	88	68	87	64
11....	92	76	92	71	100	62	94	69	95	66	96	71	94	72	97	66	94	65	95	63	97	65	88	63	86	62	87	64
12....	92	76	95	70	96	65	95	70	93	67	96	73	93	75	96	70	91	67	97	67	97	69	86	64	71	62	85	65
13....	84	71	87	70	91	68	94	72	93	69	89	73	96	73	92	70	94	70	96	67	97	71	81	66	79	60	77	64
14....	84	72	89	69	90	68	92	72	91	68	90	71	96	75	97	71	93	70	95	67	98	72	84	66	81	62	82	65
15....	92	73	94	66	96	70	87	71	92	68	90	68	97	74	96	73	93	71	98	68	98	73	77	68	78	61	80	63
16....	95	72	98	68	97	70	87	73	92	63	91	71	92	72	90	75	90	70	91	70	92	71	78	63	82	55	82	57
17....	89	75	100	69	93	71	91	68	95	62	90	70	91	72	89	69	89	67	93	70	92	69	82	58	86	55	86	59
18....	93	72	96	69	98	68	94	70	95	62	92	64	94	73	91	69	94	70	94	64	97	67	86	59	90	59	80	58
19....	92	71	96	67	97	66	93	71	93	60	93	73	93	74	96	71	94	68	96	68	99	64	85	64	92	63	84	63
20....	94	73	94	68	95	67	89	72	89	68	88	70	93	73	93	69	92	69	94	66	92	70	72	65	67	60	70	63
21....	81	70	88	67	83	68	79	71	82	65	80	71	87	74	88	74	83	70	93	72	91	74	74	62	57	74	60	60
22....	82	66	80	68	78	68	78	70	81	66	78	67	81	72	83	71	83	69	82	73	89	72	71	64	68	62	68	62
23....	76	60	79	54	83	60	85	68	82	67	82	68	80	65	84	63	80	65	83	61	85	69	80	64	81	65	79	59
24....	81	59	86	53	80	58	84	60	81	57	82	61	83	58	86	54	81	52	83	57	79	56	78	62	75	54	75	51
25....	85	64	89	54	89	52	88	65	86	53	86	60	87	60	90	53	88	53	89	50	87	57	80	54	78	54	79	50
26....	88	62	94	53	94	56	88	67	96	56	90	63	93	62	93	63	91	58	95	53	95	60	81	57	85	53	82	54
27....	89	70	96	53	95	60	92	66	97	63	92	68	95	64	96	68	93	60	97	54	95	64	86	60	85	54	83	58
28....	94	70	99	59	97	60	93	68	96	63	93	67	98	67	97	67	95	63	98	63	96	68	88	60	90	54	85	58
29....	86	70	89	60	90	68	88	70	87	68	91	70	90	72	97	71	93	68	97	66	99	69	85	60	80	64	77	61
30....	86	60	88	50	90	48	91	67	85	63	88	65	91	58	93	54	89	53	94	50	89	65	81	59	82	56	80	56
31....	93	63	93	51	94	49	92	61	95	57	92	58	95	61	96	58	93	53	97	53	91	63	86	56	85	48	83	50
Mns.	89.3	68.2	91.9	62.3	92.7	63.0	90.1	68.9	90.4	62.8	89.9	67.7	92.2	69.1	93.5	66.5	90.8	64.2	93.4	63.5	93.7	67.1	82.1	61.5	82.4	58.6	81.9	59.7

^a, ^b, ^c, etc., indicate, respectively, 1, 2, 3, etc., days missing from the record.
^{##} Instruments are read in the morning; the maximum temperature then read is charged to the preceding day, on which it almost always occurs.